

**Section I:**  
**AMENDMENT UNDER 37 CFR §1.121 to the**  
**CLAIMS**

Claim 1 (previously presented):

A method for extending and grouping actions and permissions for authorization of a requesting user to access or use a requested protected system resource in a computer system, said method comprising the steps of:

    providing in a computer readable medium an access control policy associated with said requested protected system resource containing a permission list of permitted identities and at least one action group tag with associated action indicators;

    reusing a finite quantity of action indicators among a plurality of action group tags to control a number of unique permissions less than or equal to the product of the quantity of allowable action indicators and a quantity of allowable action group tags;

    evaluating said permission list according to a specific permission definition associated with said action group tag, said permission definition providing a correlation between permissible actions and members of a set of action indicators; and

    granting to a requesting computer or program authorization to perform actions on said requested protected system resource to said requesting user if said access control policy permission list includes an appropriate action indicator correlated to an action group tag.

Claim 2 (original):

The method as set forth in Claim 1 further comprising providing in an access control policy permission list a plurality of action group tags, each action group tag having one or more associated action indicators, such that resultant granting of authorization to act on said requested protected object is completed if the requested action is allowed by any of the associated action indicators of any of the action groups.

Claim 3 (previously presented):

The method as set forth in Claim 1 wherein said requested protected system resource comprises a computer file sent to a local computer from a remote computer over a computer network;

Claim 4 (previously presented):

A method for managing permission indicators for computer system protected objects comprising the steps of:

- providing in a computer readable medium a plurality of permission indicator containers in an access control list;

- associating a first set of permission indicators with a primary permission indicator container; and

- associating in a computer readable medium accessible by an authorization control system one or more additional sets of permission indicators with additional permission indicator containers, wherein said permission indicators are reused among said containers such that permission indicators may be categorized and grouped logically to control a number of unique permissions less than or equal to the product of a quantity of allowable action indicators and a quantity of allowable action group tags.

Claim 5 (original):

The method as set forth in Claim 4 wherein said step of providing a first set of permission indicators comprises providing at least one other (additional) permission indicator set having equivalent permission indicators to said first set such that permission indicators may be assigned unique permissive control according to a permission indicator container with which they are associated.

Claim 6 (original):

The method as set forth in Claim 5 wherein said step of providing an equivalent set of permission indicators comprises providing the characters "a" through "z" and "A" through "Z" as permission indicators.

Claim 7 (previously presented):

The method as set forth in Claim 4 further comprising associating an action group tag with a permission indicator container.

Claim 8 (previously presented):

The method as set forth in Claim 7 further comprising the step of providing an action group tag with an associated list of permission indicators in an access control list entry.

Claim 9 (previously presented):

A computer readable medium encoded with software for extending and grouping actions and permissions for authorization of a requesting user to access or use a requested protected system resource in a computer system, said software performing steps comprising:

- providing an access control policy associated with said requested protected system resource containing a permission list of permitted identities and at least one action group tag with associated action indicators;

- reusing a finite quantity of action indicators among a plurality of action group tags to control a number of unique permissions less than or equal to the product of the quantity of allowable action indicators and a quantity of allowable action group tags;

- evaluating said permission list according to a specific permission definition associated with said action group tag, said permission definition providing a correlation between members of a set of action indicators; and

- granting authorization to perform actions on said requested protected system resource to said requesting user if said access control policy permission list includes an appropriate action indicator correlated to an action group tag.

Claim 10 (original):

The computer readable medium as set forth in Claim 9 further comprising software for providing in an access control policy permission list a plurality of action group tags, each action group tag having one or more associated action indicators, such that resultant granting of authorization to act on said requested protected object is completed if the requested action is allowed by any of the associated action indicators of any of the action groups.

Claim 11 (previously presented):

The computer readable medium as set forth in Claim 9 wherein said requested protected system resource comprises a computer file sent to a local computer from a remote computer over a computer network.

Claim 12 (previously presented):

A computer readable medium encoded with software for managing permission indicators for computer system protected objects, said software performing steps comprising:

providing a plurality of permission indicator containers in an access control list;

associating a first set of permission indicators with a primary permission indicator container; and

associating one or more additional sets of permission indicators with additional permission indicator containers, wherein said permission indicators are reused among said containers such that permission indicators may be categorized and grouped logically to control a number of unique permissions less than or equal to the product of a quantity of allowable action indicators and a quantity of allowable action group tags.

Claim 13 (original):

The computer readable medium as set forth in Claim 12 wherein said software for providing a first set of permission indicators comprises software for providing permission indicators which are equivalent to at least one other (additional) permission indicators such that permission indicators may be assigned unique permissive control according to a permission indicator container with which they are associated.

Claim 14 (original):

The computer readable medium as set forth in Claim 13 wherein said software for providing equivalent permission indicators comprises software for providing a set of permission indicators including the characters "a" through "z" and "A" through "Z".

Claim 15 (previously presented):

The computer readable medium as set forth in Claim 12 further comprising software for associating an action group tag with a permission indicator container.

Claim 16 (previously presented):

The computer readable medium as set forth in Claim 15 further comprising software for providing an action group tag with an associated list of permission indicators in an access control list entry.

Claim 17 (previously presented):

An authorization system for extending and grouping actions and permissions for authorization of a requesting user to access or use a requested protected system resource in a computer system, said system comprising:

an access control policy disposed in a computer readable medium associated with said requested protected system resource, having a permission list of permitted identities and at least one action group tag with associated action indicators, wherein a finite quantity of action indicators are reused among a plurality of action group tags to control a number of unique permissions less than or equal to the product of the quantity of allowable action indicators and a quantity of allowable action group tags;

a permission list evaluator for evaluating an access control policy permission list according to a specific permission definition associated with said action group tag, said permission definition providing a correlation between members of a set of action indicators; and

an authorization grantor adapted to grant authorization to a requesting computer or program to perform actions on said requested protected system resource to said requesting user if said access control policy permission list includes an appropriate action indicator correlated to an action group tag.

Claim 18 (previously presented):

The system as set forth in Claim 17 further wherein said access control policy permission list comprises a plurality of action group tags, each action group tag having one or more associated action indicators, such that resultant granting of authorization to act on said requested protected object is completed if the requested action is allowed by any of the associated action indicators of any of the action groups.

Claim 19 (previously presented):

The system as set forth in Claim 17 wherein said requested protected system resource comprises a computer file sent to a local computer from a remote computer over a computer network.

Claim 20 (previously presented):

A system for managing permission indicators for computer system protected objects comprising:

- a plurality of permission indicator containers for an access control list, said access control list being disposed in a computer readable medium;

- a first set of permission indicators associated with a primary permission indicator container; and

- one or more additional sets of permission indicators associated in said computer readable medium with additional permission indicator containers, wherein said permission indicators are reused among said containers such that permission indicators are categorized and grouped logically to control a number of unique permissions less than or equal to the product of a quantity of allowable action indicators and a quantity of allowable action group tags.

Claim 21 (previously presented):

The system as set forth in Claim 20 wherein said first set of permission indicators and at least one other (additional) permission indicator set are equivalent permission indicators such that permission indicators are assigned unique permissive control according to the permission indicator container with which they are associated.

Claim 22 (original):

The system as set forth in Claim 21 wherein said equivalent set of permission indicators comprises the characters "a" through "z" and "A" through "Z".

Claim 23 (original):

The system as set forth in Claim 20 further comprising an action group tag associated with a permission indicator container.

Claim 24 (previously presented):

The system as set forth in Claim 23 further comprising an action group tag associated with a list of permission indicators in an access control list entry.